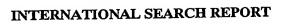
## INTERNATIONAL SEARCH REPORT

Facsimile No.

International application No.

PCT/JP03/04132 CLASSIFICATION OF SUBJECT MATTER Int.Cl7 G01P21/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int.Cl7 G01P21/00 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched 1994-2003 Toroku Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Koho 1996-2003 Jitsuyo Shinan Toroku Koho 1971-2003 Kokai Jitsuyo Shinan Koho Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category\* US 5000030 A (Agency of Industrial Science & Technology; Ministry of International trade & Industry), 19 March, 1991 (19.03.91), 1,7,8,14,20, Full text; all drawings Y 21,28,32,33 2-6,9-13, Full text; all drawings A 15-19,22-27, & CH 683949 A & JP 3-67175 A 29-31,34 & DK 76690 A JP 5-273232 A (Toshiba Corp.), 22 October, 1993 (22.10.93), 1,7,8,14,20, Full text; all drawings Y 21,28,32,33 2-6,9-13, Full text; all drawings Α 15-19,22-27, (Family: none) 29-31,34 Further documents are listed in the continuation of Box C. See patent family annex. later document published after the international filing date or Special categories of cited documents: priority date and not in conflict with the application but cited to document defining the general state of the art which is not understand the principle or theory underlying the invention considered to be of particular relevance document of particular relevance; the claimed invention cannot be earlier document but published on or after the international filing considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is document of particular relevance; the claimed invention cannot be cited to establish the publication date of another citation or other considered to involve an inventive step when the document is special reason (as specified) combined with one or more other such documents, such document referring to an oral disclosure, use, exhibition or other combination being obvious to a person skilled in the art document member of the same patent family document published prior to the international filing date but later than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 01 July, 2003 (01.07.03) 17 June, 2003 (17.06.03) Authorized officer Name and mailing address of the ISA/ Japanese Patent Office Telephone No.



International application No. PCT/JP03/04132

ategory*	cion). DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	JP 3-109165 U (NEC Corp.), 08 November, 1991 (08.11.91), Full text; all drawings (Family: none)	1-34
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